



STORION-G2-H30/50

Indoor / Outdoor

30 kW / 50 kW

INDOOR

30 kW: 64.5 ~ 209.6 kWh
50 kW: 104.8 / 209.6 kWh



OUTDOOR

30 kW: 64.5 ~ 193.5 kWh
50 kW: 96.7 / 193.5 kWh



STORION-G2-H30/50 is an AlphaESS air-cooling C&I product designed for small-scale applications. Battery modules, HV Box, PCS, DCDC, EMS and other components is integrated in one cabinet. The system is scalable to satisfy users' application scenarios. The system is scalable to meet diverse user application scenarios.

► **AC, DC, Hybrid-coupled solutions are all available**

► **High system integration**

High integration: built-in battery modules, HV Box, PCS, DCDC, EMS and other components.

Easier transportation and installation.

All-in-one design maximizes the utilization rate of space.

► **Safety**

Multiple safety protection designs. In the event of abnormalities, the main circuit can be swiftly disconnected within milliseconds.

Outdoor cabinet built-in aerosol, provides system-level fire protection.

Indoor&Outdoor cabinet adds Smoke detect.

► **Scalability**

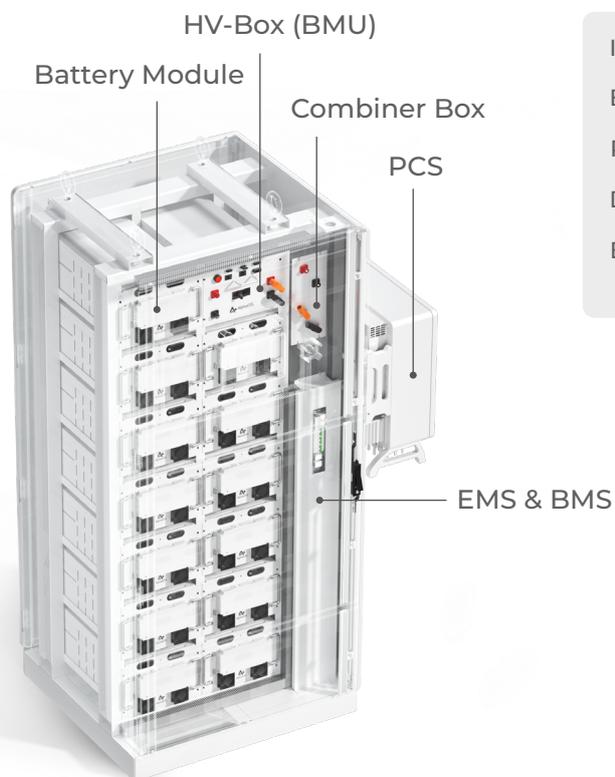
Max 3 systems in On&Off-Grid mode.

Max 5 systems in On-Grid mode.



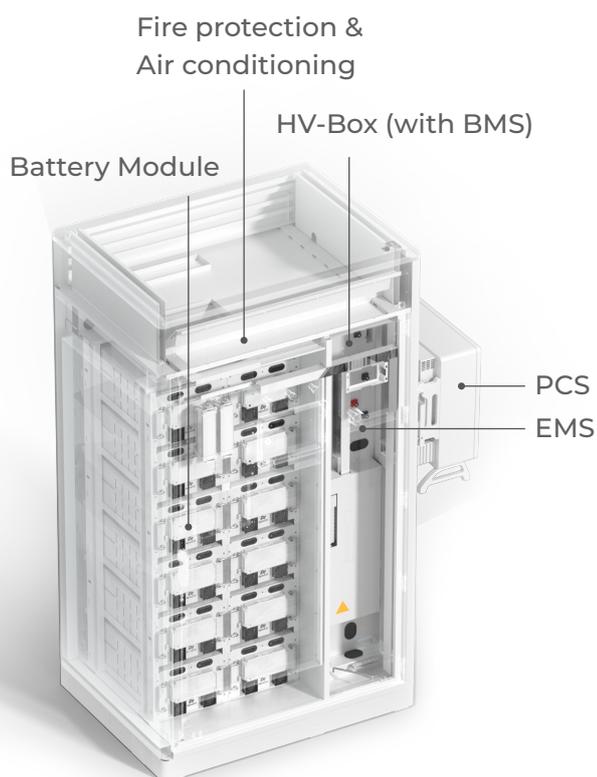
SOLUTIONS

INDOOR SOLUTIONS



Inverter Power	30 / 50 kW
Battery Capacity	64.5 kWh ~ 209.7 kWh
Rated Power	0.5 P
Dimensions (W x D x H)	(950+300) x 900 x 2050 mm
Expandability	5 systems in On-grid mode 3 systems in On&off-grid mode

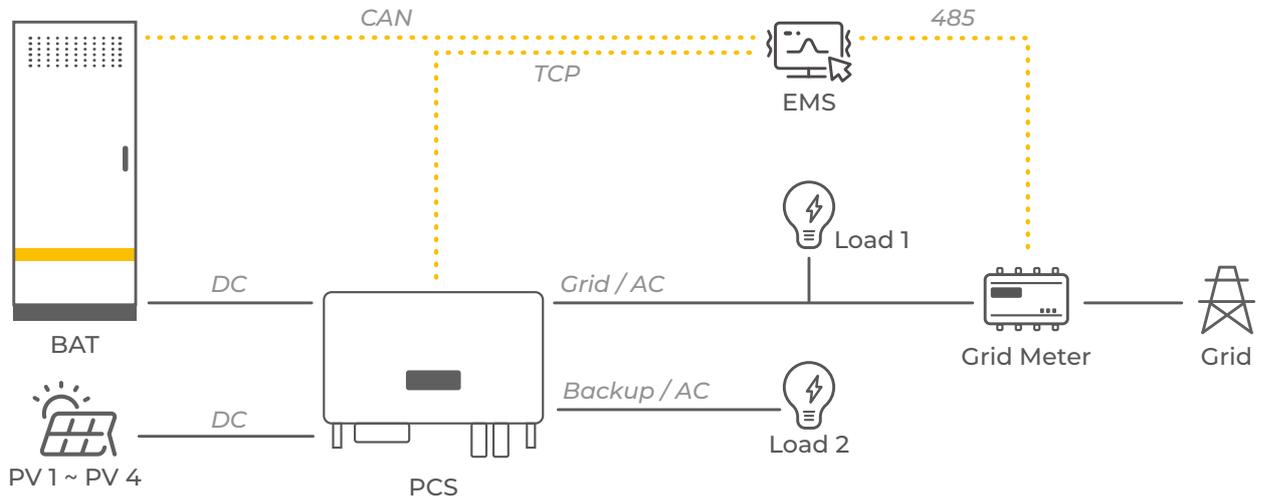
OUTDOOR SOLUTIONS



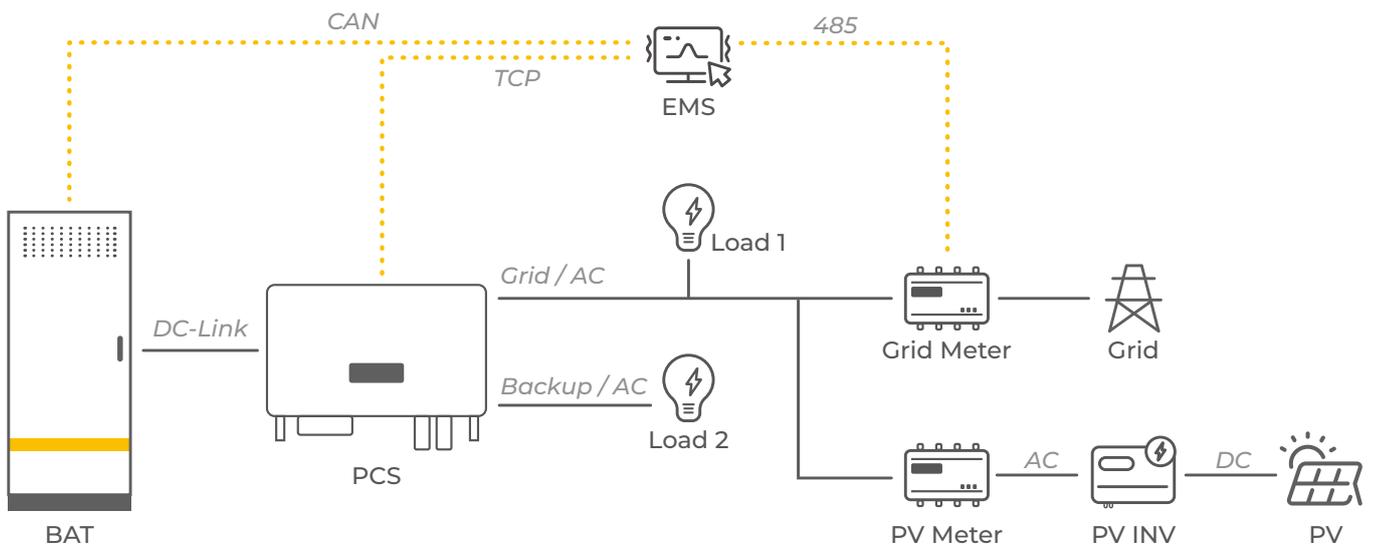
Inverter Power	30 / 50 kW
Battery Capacity	64.5 kWh ~ 193.5 kWh
Rated Power	0.5 P
Dimensions (W x D x H)	(1200+300) x 900 x 2160 mm
Expandability	5 systems in On-grid mode 3 systems in On&off-grid mode

SOLUTIONS

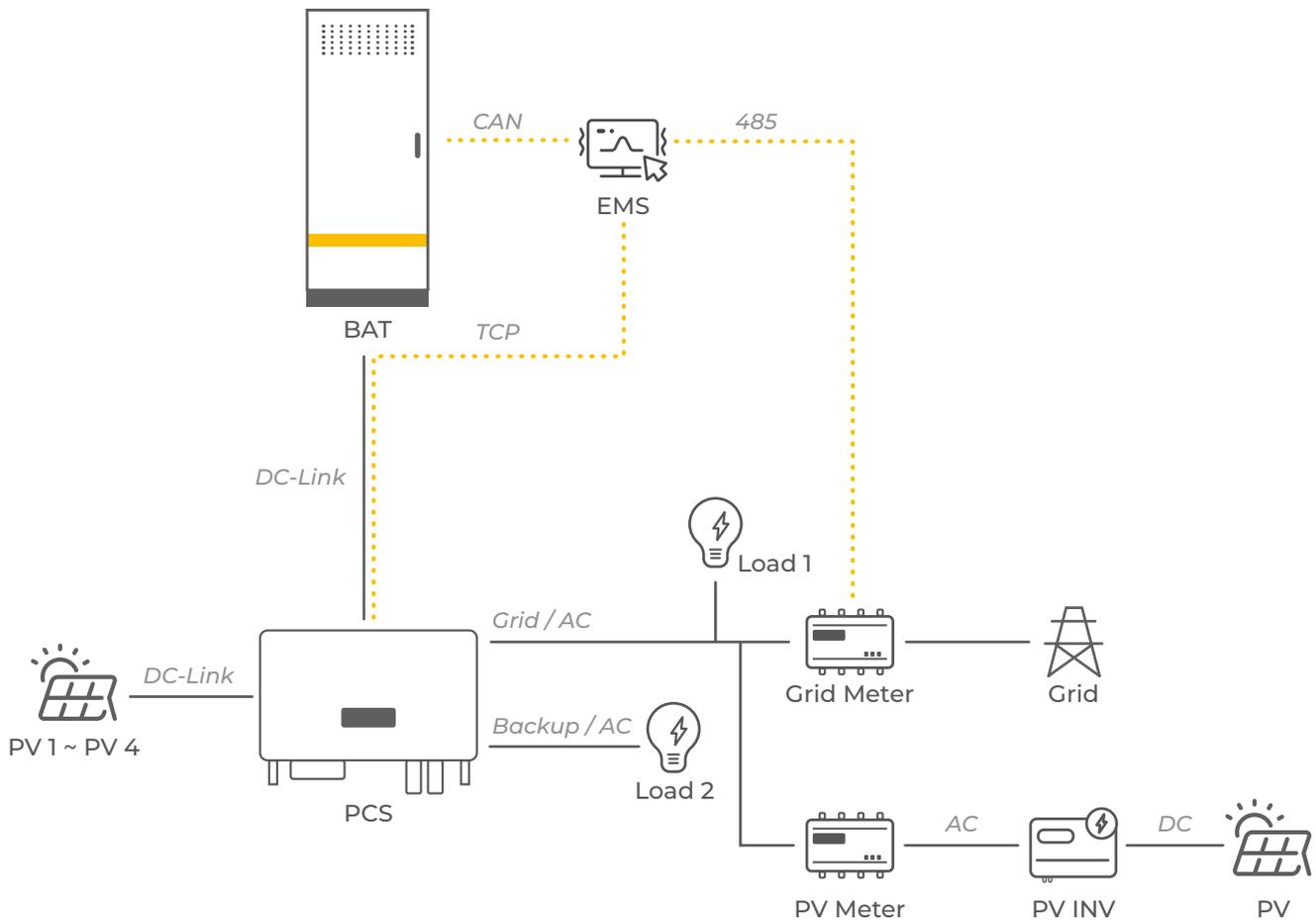
DC-COUPLED SYSTEM



AC-COUPLED SYSTEM



HYBRID SYSTEM



The G2-H30/50 uses a highly integrated hybrid inverter, supporting AC, DC, and Hybrid coupled solutions. This design is compatible with more complex application scenarios. Whether the customer has already installed a solar system or wants to expand the existing solar capacity, the G2-H30/50 can be smoothly connected to the site.

COMPONENTS

BATTERY CLUSTER SYSTEM

► M38210-SC 0.5C

Nominal Capacity	8.064 kWh
Max. Charging/Discharging Current	105 A
Depth of Discharge	90%
Battery Type	LiFePO ₄
Rated Voltage	38.4 V
Operating Voltage	36 V ~ 43.2 V
Dimensions (W×D×H)	325 x 658 x 232 mm



EXPANSION BATTERY CLUSTER (OPTIONAL)

► ALPBC-105

Battery	M38210-SC
Cluster Capacity	104.8 kWh
Max. Charging/Discharging Current	105 A
Battery Cluster Voltage Range	468 V ~ 561.6 V
Battery Rack	2 x 7
Fire-Fighting System	Smoke or Temperature
Dimensions (W×D×H)	740 x 900 x 2160 mm
Weight	1115 kg



► ALPBC-105-O

Battery	M38210-SC
Cluster Capacity	96.76 kWh
Max. Charging/Discharging Current	105 A
Battery Cluster Voltage Range	432 V ~ 518.4 V
Battery Rack	2 x 6
Fire-Fighting System	Aerosol+Smoke / Temperature
Dimensions (W×D×H)	1200 x 900 x 2160 mm
Weight	1360 kg



INVERTER

► PV Side

Max. Input power	45 kW	75 kW
Start-up voltage	135 V	
MPPT Voltage Range	200 V ~ 850 V	
Number of MPPT	4	
Number of Strings for Each MPPT	2	
Max. Input Current	30 A / 30 A / 30 A / 30 A	
Max. Short-circuit Current	40 A / 40 A / 40A / 40 A	



► AC Data

Rated Output Power	30 kW	50 kW
Max. Input Power	36 kW	60 kW
Rated Grid Voltage	3L / N / PE 220 V / 380 V; 230 V / 400 V	
Grid Frequency	50 / 60 Hz	
Rated Output Power	30 kW	50 kW
Max. Current	50 A	83 A

► General Data

Dimensions (W x D x H)	(950+300) x 900 x 2050 mm	
Weight	912 ~ 1237 kg (with M38210-SC)	1237 kg (with M38210-SC)
Operating Temperature Range	-20 °C ~ 50 °C (PCS > 45°C derating)	
Cooling Method	Forced Air-Cooling	
Communication Interfaces	RS485, CAN, Modbus TCP, Ethernet	



ENERGY STORAGE SOLUTIONS

Residential

Commercial & Industrial

Utility



Alpha ESS Europe GmbH

✉ europe@alpha-ess.de

🌐 www.alphaess.de

📍 Alfred-Herrhausen-Allee 3-5, 65760 Eschborn

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